

BI channel selection is based on the interference level of each channel after adaptive array combining, and since adaptive arrays suppress interference, the wireless communication system with adaptive arrays using the prior art optimizes the performance of a given link by selecting the channel with the lowest interference. However, an adaptive array can substantially suppress interferers, but only when the number of interferers is less than the number of antennas. Thus, with the adaptive array the channel selection process of the prior art can place interferers close together. If this results in too many interferers on another link, the performance of that link may be seriously degraded. As a result, the above channel selection process can result in overall system performance that is worse than without an adaptive array.

REMARKS

Upon entry of this Preliminary Amendment, claims 1-18 are pending in the application. Claims 1 and 10 are in independent form. The Applicants respectfully request examination of this case and early issuance of a Notice of Allowance.